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clarion Service Manual

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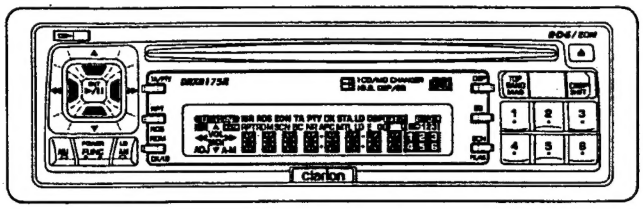


FM/MW/LW CD PLAYER WITH RDS AND CD CHANGER CONTROL

Model *DRX8175R*

(PE-2106E)

■SPECIFICATIONS:

◎RADIO SECTION

Tuning system:	PLL synthesizer
Receiving frequencies:	FM 87.5MHz to 108MHz
	MW 531kHz to 1,602kHz
	LW 153kHz to 279kHz

◎CD SECTION

System:	Compact disc audio
Signal format:	Sampling frequency 44.1kHz
	8times oversampling
	Dual 1-bit D/A converters
Frequency response:	5Hz to 20,000Hz(±1dB)
Dynamic range:	95dB(1kHz)
S/N ratio:	100dB(1kHz) IHF-A
Wow and flutter:	Below measurement range
Distortion:	0.012%

◎GENERAL

Power supply voltage:	DC14.4V(10.8 to 15.6V allowable)
	Negative ground
Power consumption:	Less than 10A
Auto antenna rated current:	350mA or less
Weight:	2.3kg
Dimensions:	178(W)x50(H)x152(D)mm

■COMPONENTS:

◎PE-2106E-B

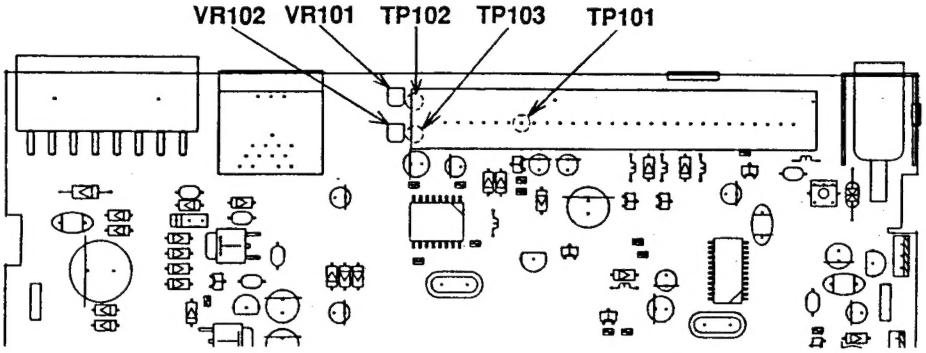
Main unit		1
Bracket(strap)	300-6954-00	1
Bracket(universal)	300-9035-01	1
DCP case	335-4848-00	1
Outer escutcheon	370-9006-00	1
Extension lead	854-3817-00	1
Parts bag	—	1
Hook plate	330-8216-01	2
Lead holder	335-0833-01	1
Spacer	345-3653-01	1
Screw	716-0496-01	1

■ADJUSTMENT

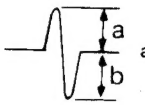
●FM SECTION

Item	Procedure
S-meter	1.Connect the digital volt-meter to TP102. 2.Input the 98.1MHz/30dB(30%,400Hz)signal and adjust the level to 2.4V±0.1V by VR101.
Stop sensitivity	1.Input the 98.1MHz/28dB(30%,400Hz)signal. 2.Connect the GND to TP103. 3.Adjust VR102 so that the voltage of TP101 is high.(or seek up tuning stops.)

● ADJUSTMENT POINT

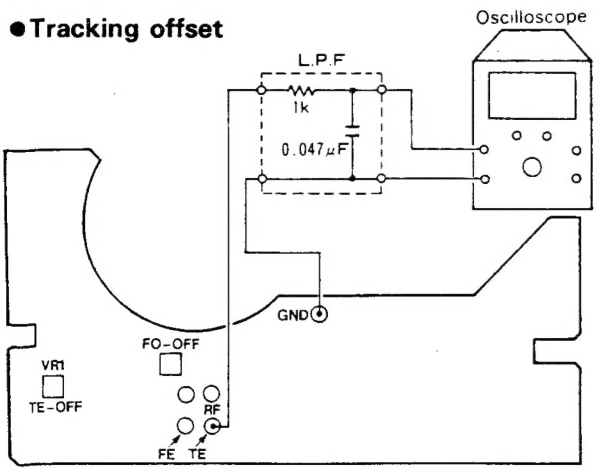


● CD SECTION

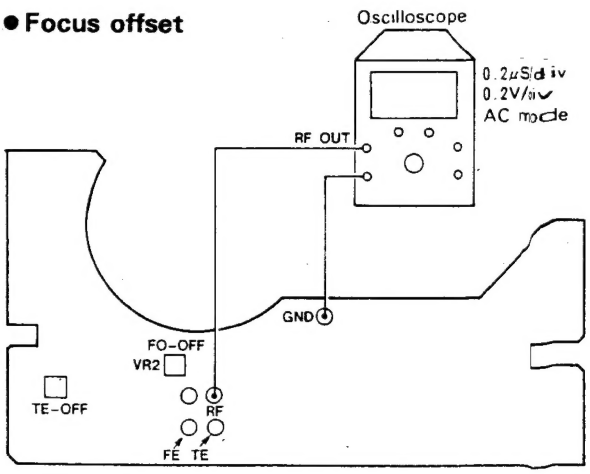
Item	Procedure
Tracking offset	1) Make sure that the power is turned off and connect the measuring instrument as indicated in the below diagram. 2) Playback the first music of SONY TYPE4. 3) Perform the manual search and check the state of TR Jump (track jump) by an oscilloscope. Adjust the tracking offset adjusting volume (VR1) so that the waveform may become symmetrical in both forward and reverse modes.  adjust so as to be a≒b.
Focus offset	1) Playback the first music in the normal mode. 2) Connect the RF OUT to the oscilloscope and adjust VR2 so that RF may be maximized and the eye pattern may be optimized.

● ADJUSTMENT POINT

● Tracking offset



● Focus offset



■ EXPLANATION OF ICs

■ μPD78058GC-025-3B9 052-3318-00 System Controller
μPD78058GC-044-3B9 052-3316-01 (Master Microcomputer)

* 052-3318-00 and 052-3316-01 are not compatible with each other.

Outward Form

80-pin plastic QFP

Terminal Description (052-3318-00)

No.	Symbol	I/O	Function
1 ∫ 3	GND	–	GND terminal.
4 ∫ 6	AV_{SS}	–	GND terminal for A/D.
7	AVref 1	–	A/D reference voltage terminal (+5V).
8 9 10	SI 2 SO 2 SCK 2	–	Connected to GND.
11 12	DISP SI DISP SO	I O	Terminal to input and output data of serial bus line.
13 14 15	DISP SCK DISP RESET DISP BUSY	O O I	Terminal to input and output signal to DCP microcomputer.
16 17 18	C-BUS SI C-BUS SO C-BUS SCK	I O O	C-BUS line SI/SO/SCK terminal on master side.
19 ∫ 26 27 ∫ 29	AD 0 ∫ AD7 A 8 ∫ A 10	I/O O	Address/data bus for SRAM interface.
30	NC	–	Not in use.
31	SRQ	I	C-BUS line SRQ terminal on master side.
32	ACC CONT	O	ACC controlling terminal of serial bus line.
33	V_{SS}	–	GND terminal.
34	ILLUMI 1	O	"H" is outputted in the case of AMBER.
35	IJJUMI 2	O	"H" is outputted in the case of GREEN.
36	ACC REM	O	Terminal to control ON/OFF of 5V system power supply (ACC 5V).
37	REM + B	O	Terminal to control ON/OFF of +B (audio system) power supply.
38	MUTE	O	Terminal to output SYSTEM MUTE signal.
39	BLINK LED	O	BLINKING LED terminal.
40	RD	O	Strobing terminal for SRAM lead.
41	WR	O	Strobing terminal for SRAM light.
42	CE	O	Terminal to enable SRAM chip.
43	ASTB	O	Latch terminal for SRAM light.
44 45	GND	–	GND terminal.
46 47 48	EVOL CLK EVOL DATA EVOL CE	O	Terminal to transfer serial data to electric volume.
49	PHONE INT	I	Terminal to input interruption signal from telephone.
50 ∫ 53	GND	–	GND terminal.

Note: Only new microcomputers are described here.

Pin No.	Symbol	I/O	Function
54 55	MOTOR – MOTOR +	O	Terminal to control direction of motor revolution of flap.

MOTOR +	MOTOR –	Direction of flap movement
H	H	Brake
H	L	In the direction of OPEN
L	H	In the direction of CLOSE
L	L	—

Pin No.	Symbol	I/O	Function
56	REM MOTOR	O	Flap block battery ON/OFF control terminal. Flap power ON: H
57	DR SENC	I	Input terminal to detect opening and closing of cassette door. Pack in : "H" No pack : "L"
58	OPEN SENC	I	Terminal to detect opening of flap.
59	CLOSE SENC	I	Terminal to detect closing of flap.
60	RESET	I	Terminal to input reset signal.
61	DISP REQ	I	Terminal to input REQ signal from DCP microcomputer.
62	B/U	I	Input terminal for BACK UP detection.
63	A_{CC} IN	I	Input terminal for ACC ON/OFF detection. "H" at ACC ON. "L" at ACC OFF.
64	EJECT	I	Input terminal for EJECT key detection. The terminal turns "H" when key is pressed.
65	ILLUMI DET	I	Input terminal for ILLUMI detection.
66	DCP IN	I	Input terminal for DCP detection. The terminal turns "L" when DCP is detected.
67	FUNCTION	I	Input terminal for power (function) SW detection. The terminal turns "L" when FUNCTION SW is ON.
68	V_{DD}	–	Power supply voltage terminal (+5V).
69 70	X 2 X 1	–	System clock terminal.
71	V_{SS}	–	GND terminal.
72	NC	–	Not in use.
73	SELF CHECK	I	Terminal for SELF CHECK.
74	AV_{DD}	–	A/D power supply voltage terminal (+5V).
75	AVref 0	–	A/D reference voltage terminal (0V).
76 ∫ 80	GND	–	GND terminal.

Differences (052-3316-01)

Pin No.	Symbol	I/O	Function
50	BEEP	O	BUZZER output terminal which sends signal to turns the buzzer on.
51 ∫ 58	NC	–	Not in use.
59	2105/2106	I	Terminal for input of PE-2105/PE-2106 selector signal. "H" in PE-2105 mode.
76	TEMP	O	The terminal judges high temperature when input voltage drops below 2.46V.

■ μPD78014GC-641-AB8 052-1301-10 Tuner Controller

Outward Form

64-pin plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	SD UP	O	Output when measuring a PLL setting IF count.
2	LPF CONT	O	PLL low-pass filter control terminal.
3	RDS MUTE	O	"H" is output for 1 second both at power (POWER & ACC)-on and AM to FM band switching.
4 ∫ 7	OUT 1 ∫ OUT 4	O	"H"/"L" is simply output by receiving an arbitrary command from the master.
8	NC	–	Not in use.
9	GND	–	GND terminal.
10 ∫ 17	SRAM AD 0 ∫ SRAM AD 7	I/O	SRAM control. Address & data line. Port commonly used for the lower 8-bit address and 8-bit data.
18 ∫ 20	SRAM A 8 ∫ SRAM A 10	O	SRAM control. Address line. Upper 3-bit address output only port.
21	NC	–	Not in use.
22	$\overline{\text{SRAM CE}}$	O	SRAM control chip enable. "L" output at any time while the power (POWER & ACC) is turned on.
23	S CW	I	Initial setting CW detection enable ("H")/disable ("L").
24	GND	–	GND terminal.
25	S RDS IC	I	Initial setting RSD-IC selection. PHILIPS ("H")/SANYO ("L"). Disabled when RDS ID signal is at "H" and enabled at "L".
26	S SD UP	I	Initial setting SD UP enable ("L")/disable ("H").
27	$\overline{\text{SRQ}}$	O	C-BUS communication SRQ output.
28	NC	–	Not in use.
29	REM	O	Remote signal output. "L" output at any time while the power (POWER & ACC) is turned on.
30	R MUTE	O	RADIO MUTE output. MUTE ON at "L". Turn on when changing the reception frequency.
31	$\overline{\text{SRAM RD}}$	O	SRAM control. Data read signal. "L" output when executing a data read instruction from the SRAM.
32	$\overline{\text{SRAM WR}}$	O	SRAM control. Data write signal. "L" output when executing a data write instruction to the SRAM.
33	AM SD	I	AM band. With-station detection signal input.
34	SRAM ASTB	O	SRAM control timing signal. Always output by effecting the memory expansion mode.
35	RESET	I	Microcomputer reset signal.
36	INITIAL AM SD	I	Initial setting AM band SD detection. Yes ("H")/No ("L") designation. "H" : Performs SD detection.
37	ACC CONT	I	ACC signal (Terminal interrupt). "H" at ACC ON. "L" at ACC OFF.
38	RDS IC CLK	I	RDS IC communication. Clock input. (Terminal interrupt)
39	IF MUTE	O	IF MUTE terminal.
40	VDD	–	Supply voltage terminal.
41 42	XTAL	I	Main clock oscillator (8.38 MHz) connection terminal.
43	GND	–	GND terminal.
44	NC	–	Not in use.
45	$\overline{\text{ST ID}}$	I	Stereo signal input. Stereo ("L")/monaural ("H").
46	A GND	–	A/D converter GND terminal.
47	S Meter	I	Electric field intensity (S meter) input (A/D conversion).
48	CW	I	CW (carrier) signal input (A/D conversion). Only when initial setting CW detection is enabled.
49	SD	I	Station enable detection signal input.
50	$\overline{\text{RSD ID}}$	I	RDS station recognition signal input. RDS station ("L").
51	$\overline{\text{SK ID}}$	I	ARI station SK signal input. SK-ON ("L").
52	$\overline{\text{DK ID}}$	I	ARI station DK signal input. DK-ON ("L").
53	RDS IC DATA	I	RDS IC communication data input. The port is read directly at clock interrupt time.
54	NC	–	Not in use. (+5V pullup or GND)
55	AVDD	–	A/D converter supply power.
56	A VREF	I	A/D converter reference voltage input.
57	PLL DI	I	PLL IC serial communication data input. Takes in the IF count data.
58	PLL DO	O	PLL IC serial communication data output. Sets the frequency divider, general purpose port data, etc.
59	PLL CLK	O	PLL IC serial communication clock output. Clock frequency: 524 kHz.
60	PLL CE	O	PLL IC serial communication chip enable output.
61	NC	–	Not in use.
62	C-BUS SBI	I	C-BUS communication data input.
63	C-BUS SBO	O	C-BUS communication data output.
64	C-BUS SCK	I	C-BUS communication clock input. The clock frequency depends on the master microcomputer.

■ μPD78064GF-025-3BA 052-7008-01 Microcomputer for display.

Outward Form

100-pin Plastic QFP

Terminal Description

Pin No.	Symbol	I/O	Function
100 1 2	M DISP SI M DISP SO M DISP SCK	I O I/O	Terminal to input and output bus line data to master side.
3 4	BB RX BB TX	I O	Terminal to transmit and receive start/stop of synchronous communications.
5 6	NC	–	Not in use.
7 8	X 2 X 1	– I	System clock terminal. (4.19MHz)
9	V_{DD}	–	Power supply terminal. (+5V).
10 11	NC	–	Not in use.
12	RESET	I	Terminal to input reset signal.
14	NC	–	Not in use.
15	BB REQ	O	Terminal to call for communication permission.
16	DISP BUSY	I	Terminal to input signal from master side.
17 18	NC	–	Not in use.
19 ∫ 24	KI 0 ∫ KI 5	I	Terminal to input key scan signal.
25 ∫ 35	NC	–	Not in use.
27	GMD	–	GND terminal.
36	AV_{DD}	–	A/D power supply voltage terminal.
37	AVref		A/D reference voltage terminal.
38 ∫ 42	NC	–	Not in use.
40	V_{SS}	–	GND terminal.
43 ∫ 46	KO 0 ∫ KO 3	O	Terminal to output key scan signal.
47 ∫ 50	NC	–	Not in use.
48	DISP REQ	O	Terminal to input REQ signal from master micro computer.
51 ∫ 54	COM 0 ∫ COM3	O	Pins for output of LCD common signal.
55	BIAS	O	Pin for output of external dividing resistance cutting signal.
56 ∫ 58	VLC 0 ∫ VLC 2	–	Power pins for LCD driving.
59	V_{SS}	–	GND terminal.

Pin No.	Symbol	I/O	Function
60 ∫ 99	SEG 0 ∫ SEG 39	O	Pins for output of LCD segment signal.

Key Matrix Table

Note) Some of the sets equipped with this microcomputer are not provided with all the above keys.

KEY IN / KEY OUT	KI 0 (19 pin)	KI 1 (20 pin)	KI 2 (21 pin)	KI 3 (22 pin)	KI 4 (23 pin)	KI 5 (24 pin)
KO 0 (43 pin)	ADJ		A-M	DSP	EQ	RDM
KO 1 (44 pin)	V-DW	S-UP	SCN	4	5	6
KO 2 (45 pin)	V-UP	S-DW	RPT	1	2	3
KO 3 (46 pin)		ENT	*ID LOGIC TA/PTY ISR	BAND	DISP	

* Key specification depends on the destination.
PE-2102Y-A : ID LOGIC
PE-2105E-B : TA/PTY
PA-2107Y-A: ISR

■ PARTS LIST:

Note) Several different parts listed in the column are alternative parts. One of those parts is used in the set.

○ SWITCH PWB

REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
D105,106	001-0644-00	DIODE MA113	2	IC101	052-7008-01	IC μPD78064GC-025-3BA	1
C103	042-0416-02	CHIP-C 10V 10 μF TAN	1	X101	060-1009-00	CERA-RESONATOR‡4.915MHz	1

○ MAIN PWB

REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
D402	001-0188-01	DIODE 1S1885A	1	Q101,102,108,109 111,309,313,314 403,407	125-2004-93	TR RN1403	10
D102,105,106,201 303-305,410,411	001-0330-00	DIODE 1SS119	9				
D301	001-0356-00	DIODE 1SS184	1	Q310,405,415	125-2004-96	TR RN1406	3
D101	001-0366-00	DIODE LTZMR15	1	R411	032-0108-00	FUSE-R 1/4W 1.8Ω	1
D404,407	001-0377-46	DIODE MA4091L	2	C219,227,411 525-532	172-1041-11	POLY-C 0.1 μF	11
D405,406	001-0377-48	DIODE MA4091H	2				
D103,104	001-0378-00	DIODE 1SV125	2	C401	172-4731-11	POLY-C 0.047 μF	1
D302	001-0659-00	LED SLP-181B-51	1	C116	172-6831-11	POLY-C 0.068 μF	1
TH301	002-0212-00	THERMISTOR	1	C209,210	173-1521-11	POLY-C 1500pF	2
L301	010-2198-56	COIL‡2.2 μH	1	C222,230	173-1821-11	POLY-C 1800pF	2
L101	010-2230-00	COIL‡0.15 μH	1	C220,228	173-2721-11	POLY-C 2700pF	2
L103	010-2230-14	COIL‡2.2 μH	1	C119-122,133,134 310,314,415	176-1011-00	CHIP-C 100pF	9
L104,105	010-2230-26	COIL‡22 μH	2				
L108	010-2230-30	COIL‡47 μH	1	C124	176-1501-00	CHIP-C 15pF	1
L107	010-2230-38	COIL‡220 μH	1	C125	176-1801-00	CHIP-C 18pF	1
L102	010-4007-00	COIL	1	C211,212	176-2211-00	CHIP-C 220pF	2
VR102	012-5123-06	VARIABLE-R‡10K	1	C112	176-4701-00	CHIP-C 47pF	1
VR101	012-5123-15	VARIABLE-R‡470K	1	C111	176-8201-00	CHIP-C 82pF	1
IC402	051-0869-05	IC MB3771PF(-G)	1	C135,302,303,312 403	178-1022-78	CHIP-C 1000pF	5
IC105	051-1046-46	IC LC3517BML-12	1				
IC104	051-1051-05	IC TC74HC573AF	1	C126,127,304	178-1032-78	CHIP-C 0.01 μF	3
IC204,205	051-1292-00	IC NJM4565M	2	C113,132,414	178-1042-78	CHIP-C 0.1 μF	3
IC103	051-1819-00	IC SAA6579T	1	C117	178-1532-78	CHIP-C 0.015 μF	1
IC401	051-1905-00	IC AN77L05	1	C101,103,104,129 130,311,313,404	178-2232-78	CHIP-C 0.022 μF	8
IC503	051-2004-00	IC HA13150A	1				
IC201	051-5004-00	IC CXA1946Q	1	C107	178-3312-78	CHIP-C 330pF	1
IC501,502	051-5802-00	IC TA2050S	2	C115	178-3332-78	CHIP-C 0.033 μF	1
IC102	051-6201-00	IC LC72146M	1	C102,105	178-4712-78	CHIP-C 470pF	2
IC302	051-7400-06	IC HD74LS07FP	1	C307,501	178-4732-78	CHIP-C 0.047 μF	2
IC101	052-1301-10	IC μPD78014GC-641-AB8	1	C110,205,206	178-5612-78	CHIP-C 560pF	3
IC301	052-3316-01	IC μPD78058GC-044-3B9	1	C517-520	178-6812-78	CHIP-C 680pF	4
SUP101	060-0122-10	SURGE PROTECTOR	1	C406,408	042-0452-01	ELEC-C 10V 220 μF	2
X301	060-0130-50	CERA-RESONATOR‡4.19MHz	1	C412	042-0465-00	ELEC-C 16V 3300 μF	1
X101	060-0320-00	CERA-RESONATOR‡8.38MHz	1	C118,235,413 503-505,507-509	183-1053-61	ELEC-C 50V 1 μF	9
X102	061-1066-00	CRYSTAL‡7.2MHz	1				
X103	061-3013-00	CRYSTAL-OSC‡4.33MHz	1	C223,225,231,233 237,243,405,407 534	183-1063-31	ELEC-C 16V 10 μF	9
Q104,105,311,406	100-1162-00	TR 2SA1162	4				
Q410,414	100-1298-00	TR 2SA1298	2				
Q402	101-1143-00	TR 2SB1143	1	C409,410,512	183-1073-21	ELEC-C 10V 100 μF	3
Q402	101-1243-00	TR 2SB1243	1	C108,114	183-2253-61	ELEC-C 50V 2.2 μF	2
Q305,306,416,417	102-2712-00	TR 2SC2712	4	C221,229	183-2263-11	ELEC-C 6.3V 22 μF	2
Q106,107	102-2712-51	TR 2SC2712G,L	2	C238,239,241,242	183-2263-31	ELEC-C 16V 22 μF	4
Q103,201-206,307 308,501	103-1306-00	TR 2SD1306	10	C201-203,217 218,309,513 514-516	183-4753-51	ELEC-C 35V 4.7 μF	10
Q408	103-2012-00	TR 2SD2012	1				
Q409,411	103-2118-00	TR 2SD2118	2	C109,123,128,236 301,402,510,511 533	183-4763-11	ELEC-C 6.3V 47 μF	9
Q412,413	108-0241-50	FET 2SK241	2				
Q312	125-0002-03	TR RN2403	1				
Q110	125-0002-06	TR RN2406	1	C224,232	183-6843-62	ELEC-C 50V 0.68 μF	2

○ CD SUB PWB

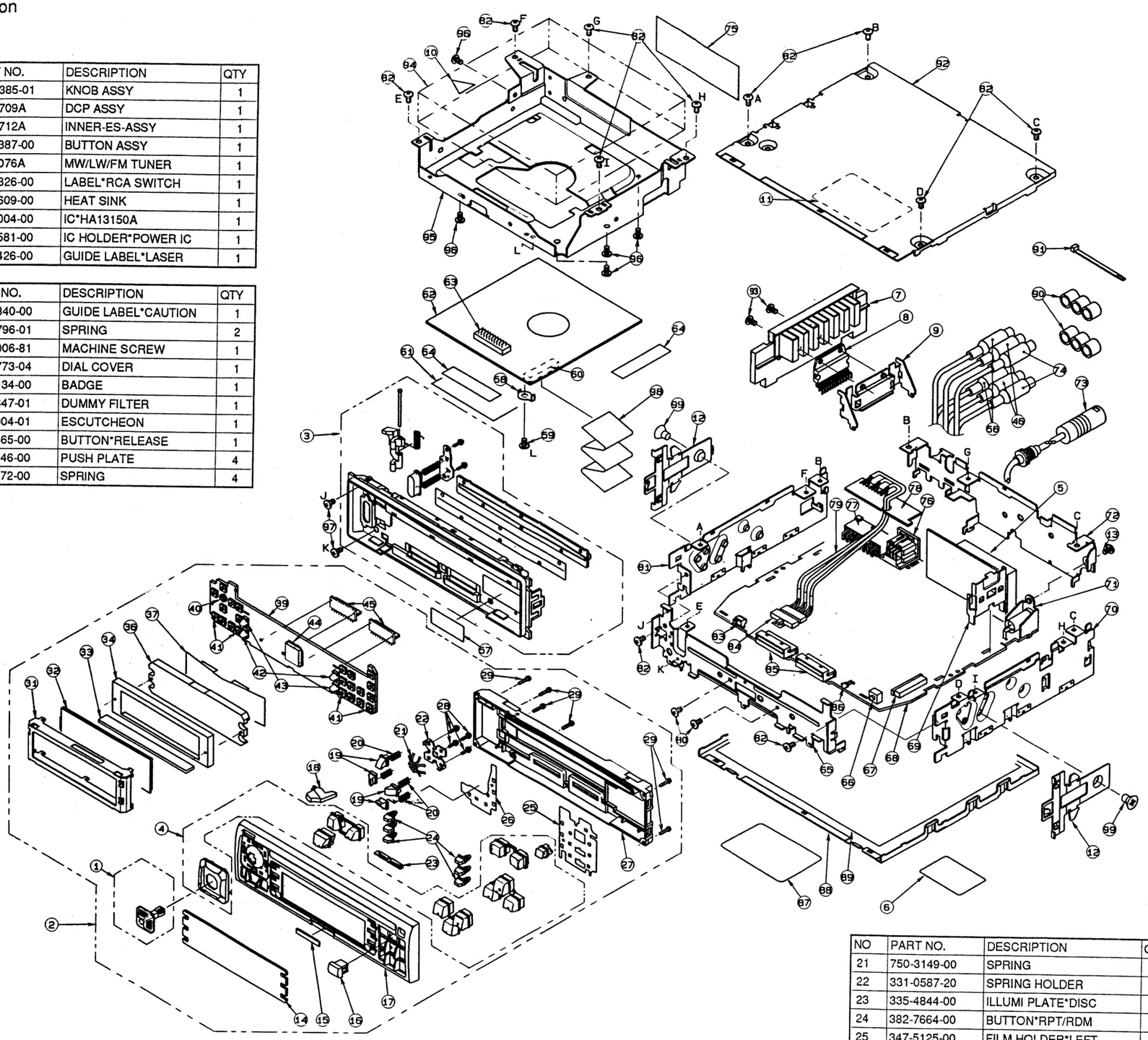
REF NO.	PART NO.	DESCRIPTION	QTY	REF NO.	PART NO.	DESCRIPTION	QTY
D601,602	001-0528-32	DIODE MA8056-M	2	C208,211,212 303-305,502	178-1032-78	CHIP-C 0.01 μF	7
IC303	051-0858-05	IC TC74HC02AF	1				
IC501	051-1014-05	IC TA7291F	1	C104,105,108,201 202,204,207,214 216,218,302,306 401403	178-1042-78	CHIP-C 0.1 μF	14
IC301	051-6003-05	IC MPC1730M	1				
IC302	051-6004-05	IC MPC1732M	1				
IC101	051-6304-15	IC MN6479A	1				
IC201	051-6305-00	IC CXD2515Q	1	C210	178-1522-78	CHIP-C 1500pF	1
IC401	052-5006-00	IC μPD78002BGC-621-AB8	1	C209	178-4732-78	CHIP-C 0.047 μF	1
X401	060-0322-00	CERA-RESONATOR	1	C213	042-0397-03	CHIP-C 25V 0.47 μF TAN	1
X101	061-1087-50	CRYSTAL‡16.9344MHz	1	C206,215,217,219 402	042-0403-01	CHIP-C 16V 10 μF TAN	5
Q601,602	103-1754-64	TR 2SD1754A	2				
Q401,604	125-0002-02	TR RN2402	2	C103,106,109	042-0472-00	CHIP-C 10V 47 μF TAN	3
Q603	125-2004-02	TR RN1402	1	C602,604	163-1063-30	CHIP-C 16V 10 μF	2
C101,102,112	176-1201-00	CHIP-C 12pF	3	C301,601,603	163-1073-10	CHIP-C 6.3V 100 μF	3
C203,205	176-2211-00	CHIP-C 220pF	2	C110,111	163-2263-30	CHIP-C 16V 22 μF	2
C107,113	178-1022-78	CHIP-C 1000pF	2	C501	163-3363-20	CHIP-C 10V 33 μF	1

■EXPLODED VIEW・PARTS LIST:

◎Main section

NO	PART NO.	DESCRIPTION	QTY
1	947-0385-01	KNOB ASSY	1
2	940-1709A	DCP ASSY	1
3	940-1712A	INNER-ES-ASSY	1
4	947-0387-00	BUTTON ASSY	1
5	880-2076A	MW/LW/FM TUNER	1
6	290-6326-00	LABEL*RCA SWITCH	1
7	313-1609-00	HEAT SINK	1
8	051-2004-00	IC*HA13150A	1
9	331-0581-00	IC HOLDER*POWER IC	1
10	285-1426-00	GUIDE LABEL*LASER	1

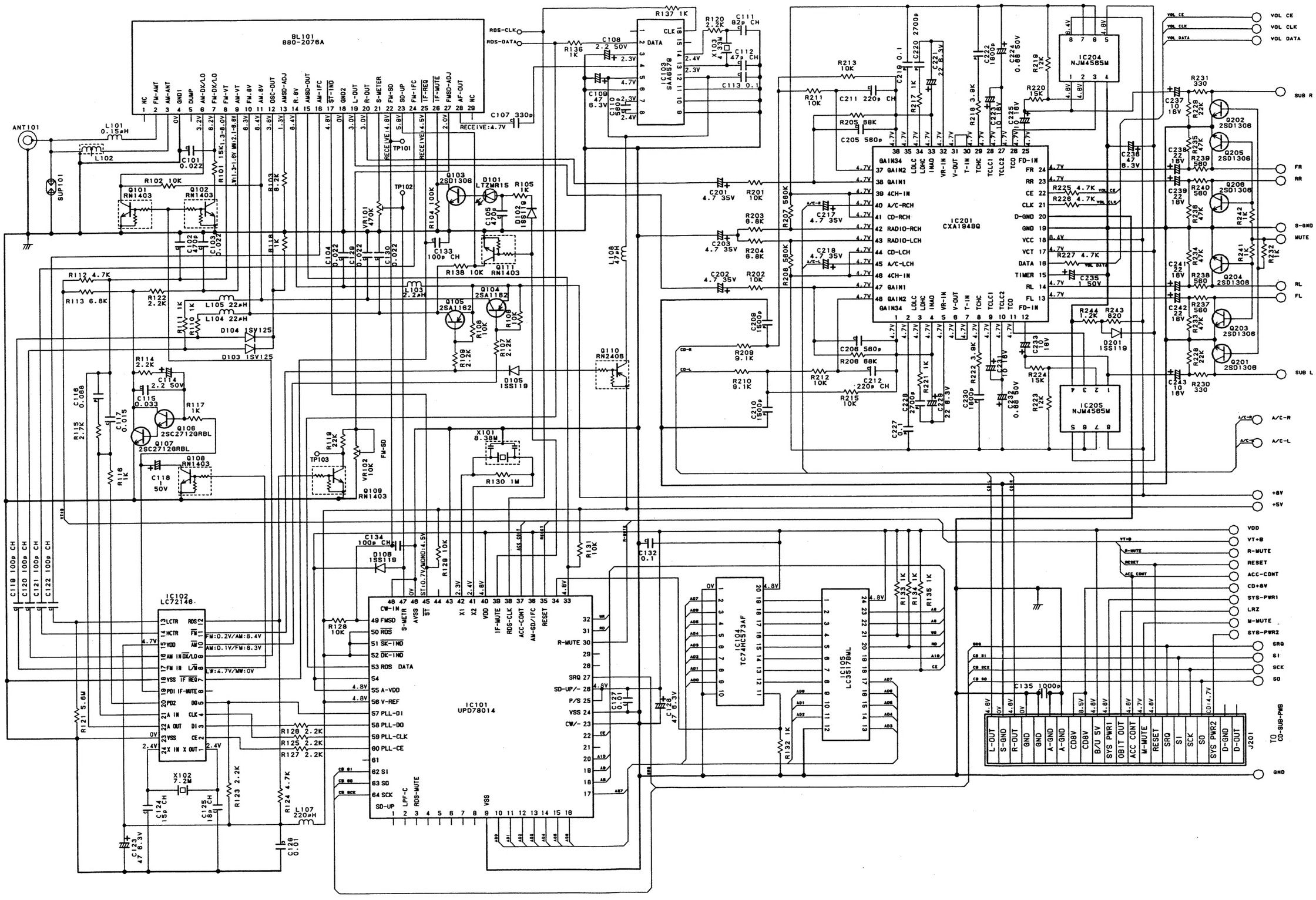
NO	PART NO.	DESCRIPTION	QTY
11	285-1340-00	GUIDE LABEL*CAUTION	1
12	750-2796-01	SPRING	2
13	714-3006-81	MACHINE SCREW	1
14	373-0773-04	DIAL COVER	1
15	378-0134-00	BADGE	1
16	335-4847-01	DUMMY FILTER	1
17	370-9004-01	ESCUTCHEON	1
18	382-7665-00	BUTTON*RELEASE	1
19	335-4846-00	PUSH PLATE	4
20	750-3172-00	SPRING	4



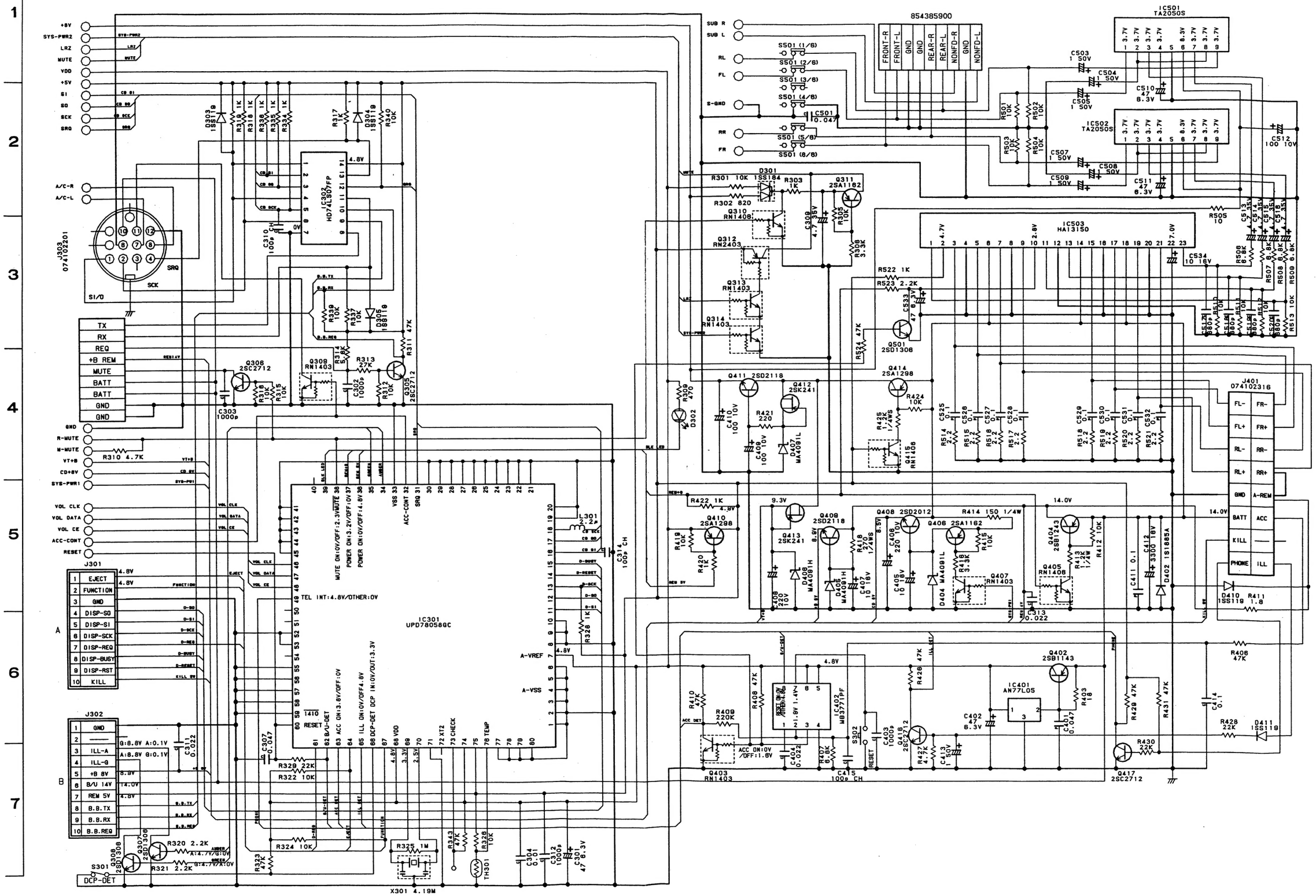
NO	PART NO.	DESCRIPTION	QTY
21	750-3149-00	SPRING	1
22	331-0587-20	SPRING HOLDER	1
23	335-4844-00	ILLUMI PLATE*DISC	1
24	382-7664-00	BUTTON*RPT/RDM	6
25	347-5125-00	FILM HOLDER*LEFT	1
26	347-5126-00	FILM HOLDER*RIGHT	1
27	335-4850-00	REAR COVER	1
28	716-0778-00	WAVE SCREW	4
29	716-1721-00	P-TIGHT SCREW	6
31	331-0589-20	LCD COVER	1

NO	PART NO.	DESCRIPTION	QTY
32	379-1028-41	INDICATOR	1
33	345-7646-00	RUBBER CONNECTOR	1
34	347-5112-00	FILM	1
36	335-4849-00	ILLUMI PLATE*LCD	1
37	347-5113-00	REFLECTOR	1
39	039-0436-00	SWITCH PWB	1
40	013-6501-02	SWITCH	1
41	013-6501-01	SWITCH	22
42	017-0438-52	PILOTLAMP*4V-150mA	2
43	017-0438-53	PILOTLAMP*4V-150mA	2
44	052-7008-01	IC	1
45	076-0504-00	PLUG	2
46	855-8530-01	RCA-PIN CORD*BLACK	1
56	855-8530-02	RCA-PIN CORD*PURPLE	1
57	291-0071-00	STICKER*SECURITY	1
58	073-0731-00	TERMINAL	1
59	731-2605-81	TAPTIGHT	1
60	074-1052-22	OUTLET SOCKET*22P	1
61	347-5120-00	INSULATOR*SUB/MAIN	1
62	039-0435-00	CD SUB PWB	1
63	076-0507-24	PLUG*24P	1
64	347-5133-00	DOUBLE-FACE	2
65	309-0656-00	FRONT PLATE	1
66	013-3932-00	SWITCH*RESET	1
67	074-0967-22	OUTLET SOCKET*22P	1
68	039-0440-00	MAIN PWB	1
69	313-1610-00	HEAT SINK	1
70	305-0238-00	SIDE COVER (R)	1
71	092-9000-00	ANT-RECEPTACLE	1
72	307-0500-00	REAR COVER	1
73	855-8000-01	MINI-DIN CORD*8P	1
74	855-8530-00	RCA-PIN CORD*GRAY	1
75	347-5123-00	INSULATOR	1
76	074-1022-01	OUTLET SOCKET*13P	1
77	074-1023-16	OUTLET SOCKET*16P	1
78	039-0437-00	RCA PWB	1
79	854-3859-00	EXTENSION LEAD	1
80	714-2005-81	MACHINE SCREW	2
81	305-0237-00	SIDE COVER (L)	1
82	731-3006-80	TAPTIGHT	11
83	013-3988-00	SWITCH*DCP-SW	1
84	013-5102-00	SWITCH*RCA IN/OUT	1
85	074-1077-00	OUTLET SOCKET	2
86	001-0659-00	LED	1
87	286-8384-00	SET PLATE	1
88	304-0437-00	LOWER COVER	1
89	347-5124-00	INSULATOR	1
90	345-3799-00	RUBBER CAP	6
91	335-0833-01	LEAD HOLDER	1
92	303-0449-00	UPPER COVER	1
93	731-3008-80	TAPTIGHT	2
94	929-0060-81	CD-MECH-MODULE*LCCD	1
95	331-0582-00	MECH-BRKT	1
96	714-2603-80	MACHINE SCREW	5
97	714-2004-19	MACHINE SCREW	2
98	816-2332-00	FLAT CABLE*FPC	1
99	714-5008-40	MACHINE SCREW	2

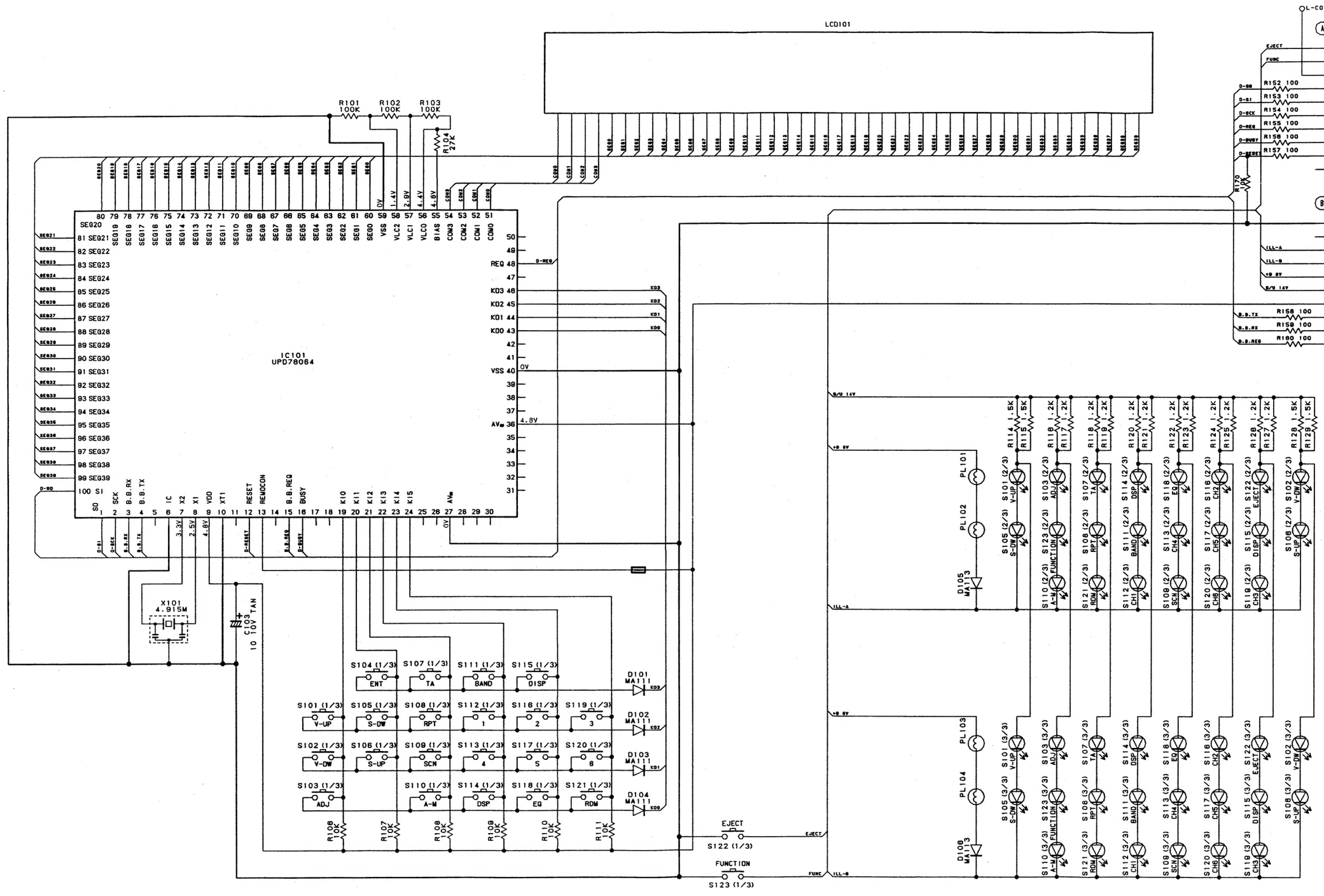
■CIRCUIT DIAGRAM: 1/3



■CIRCUIT DIAGRAM: 2/3



■CIRCUIT DIAGRAM: 3/3



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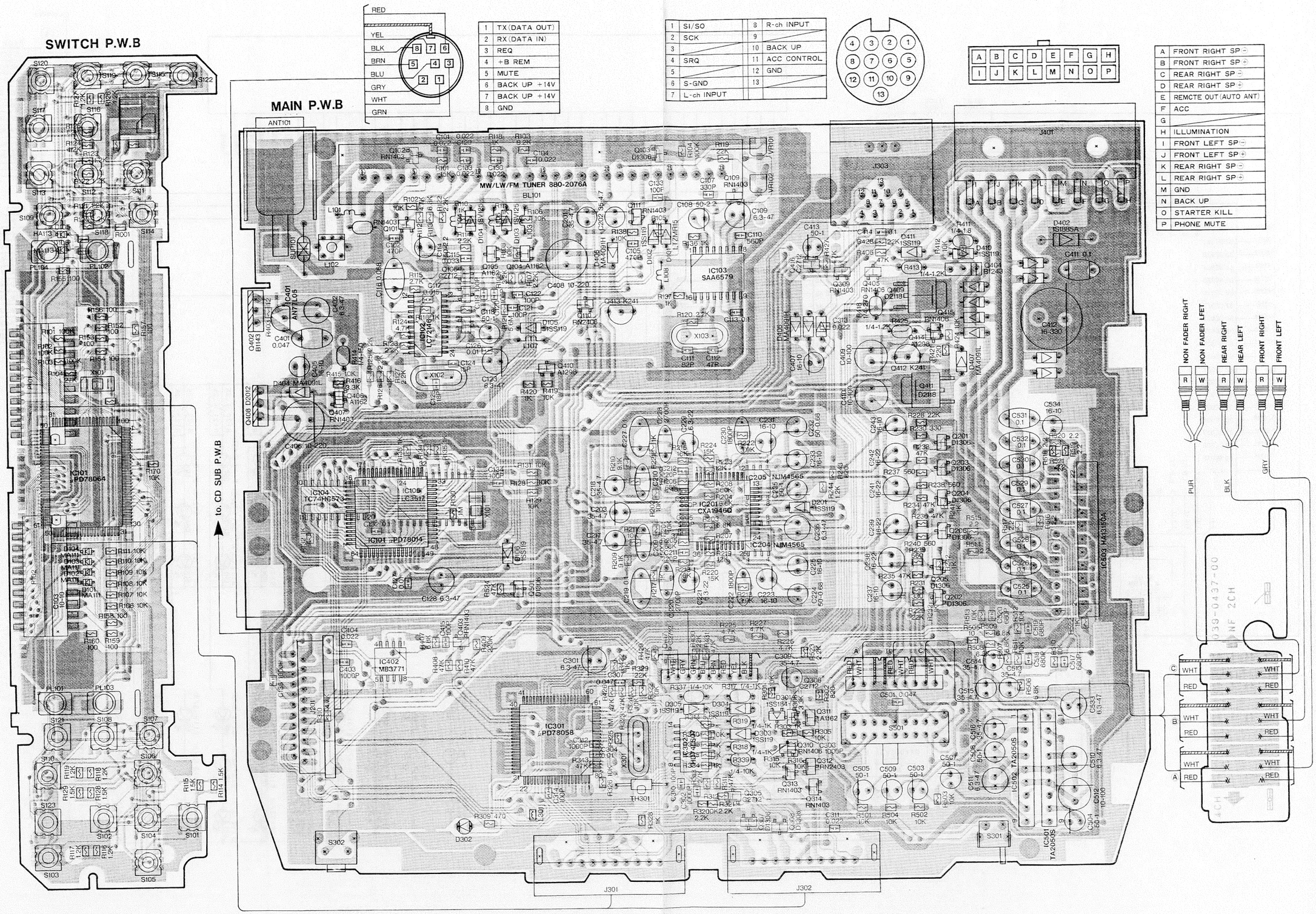

■CIRCUIT DIAGRAM: ©CD SUB P.W.B

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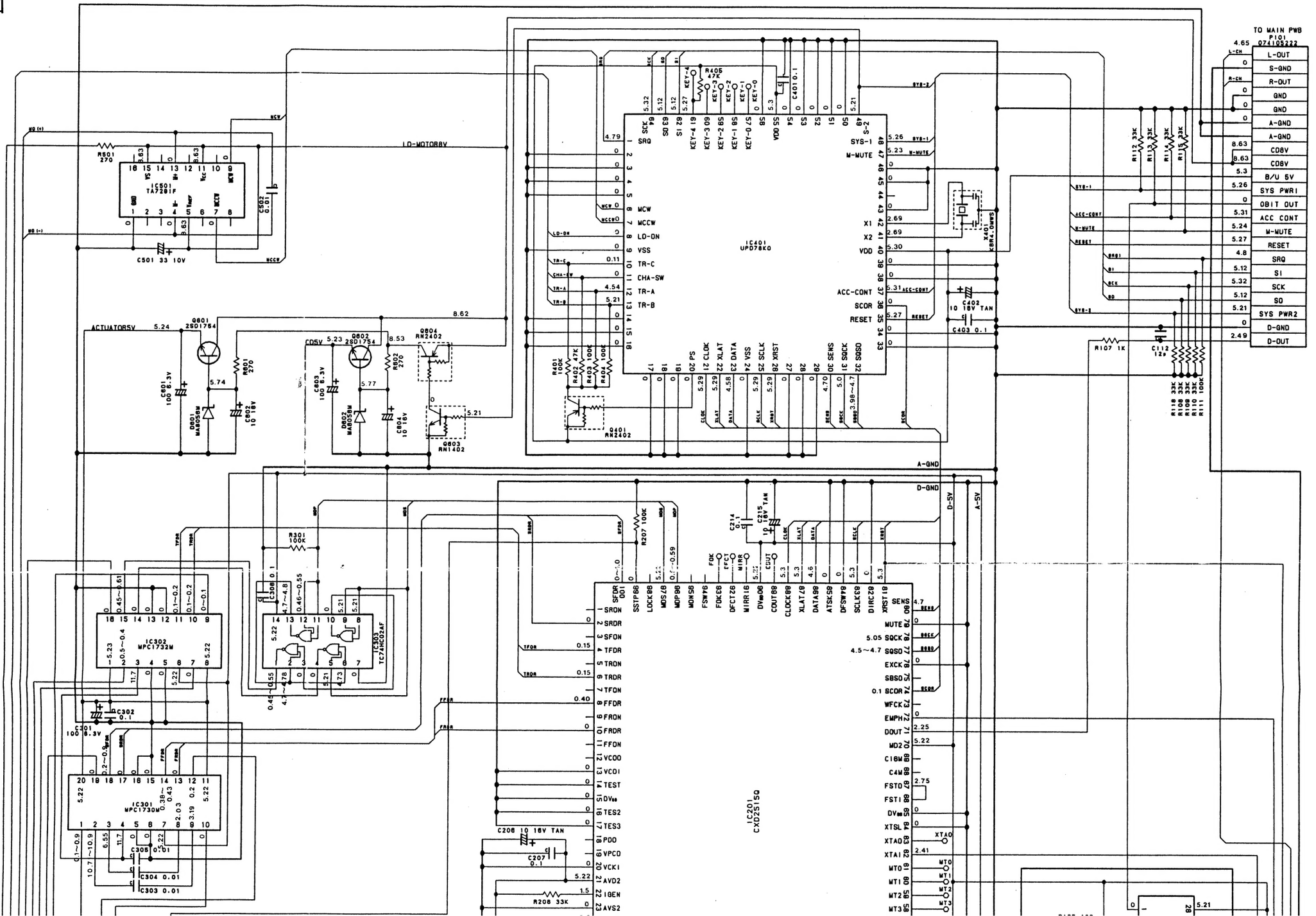
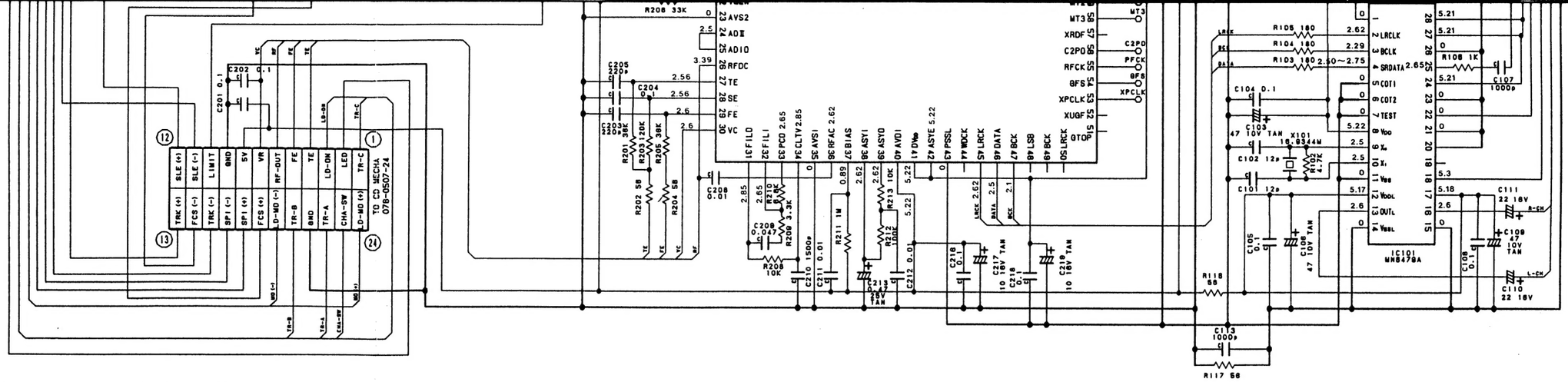
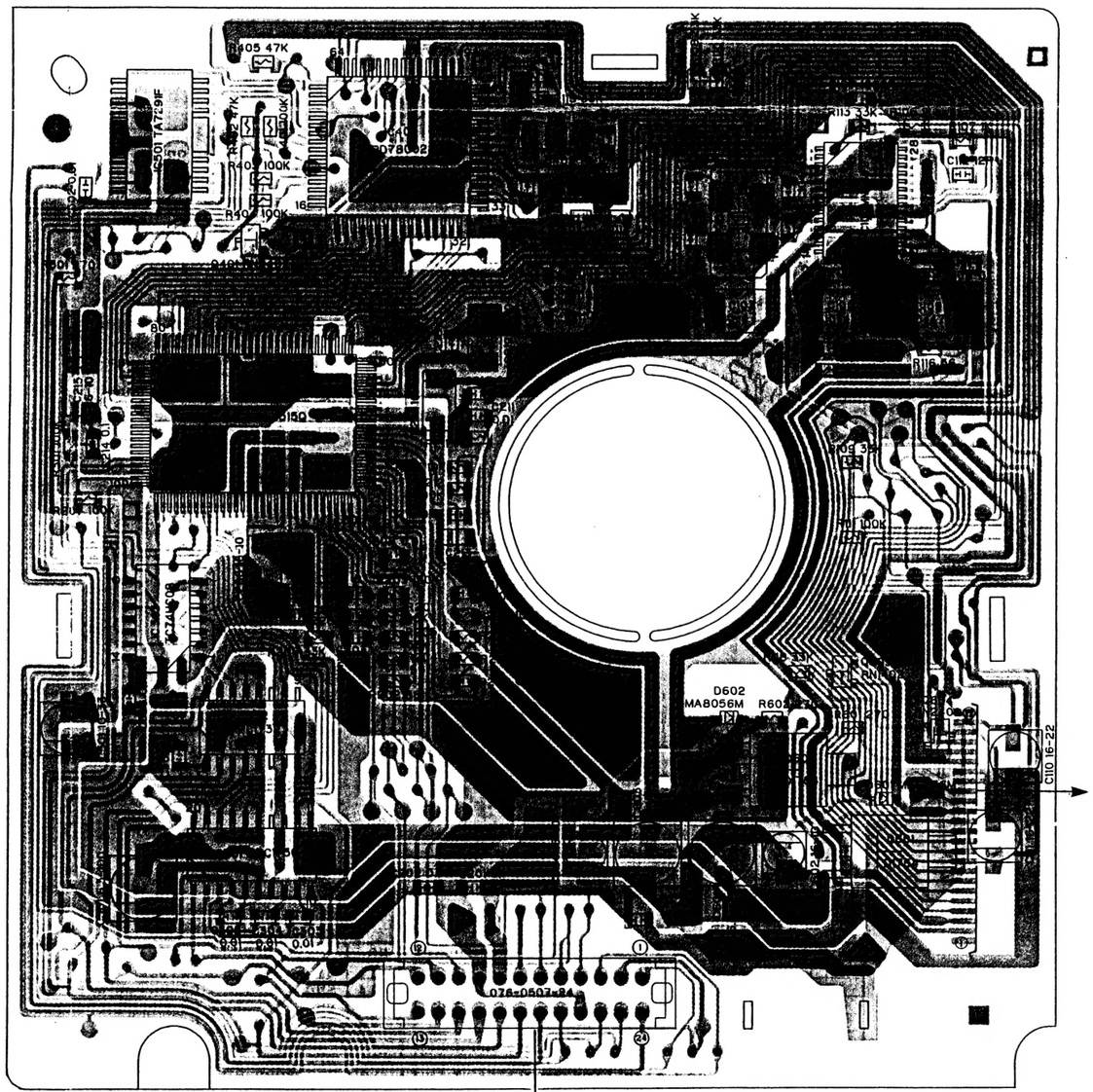




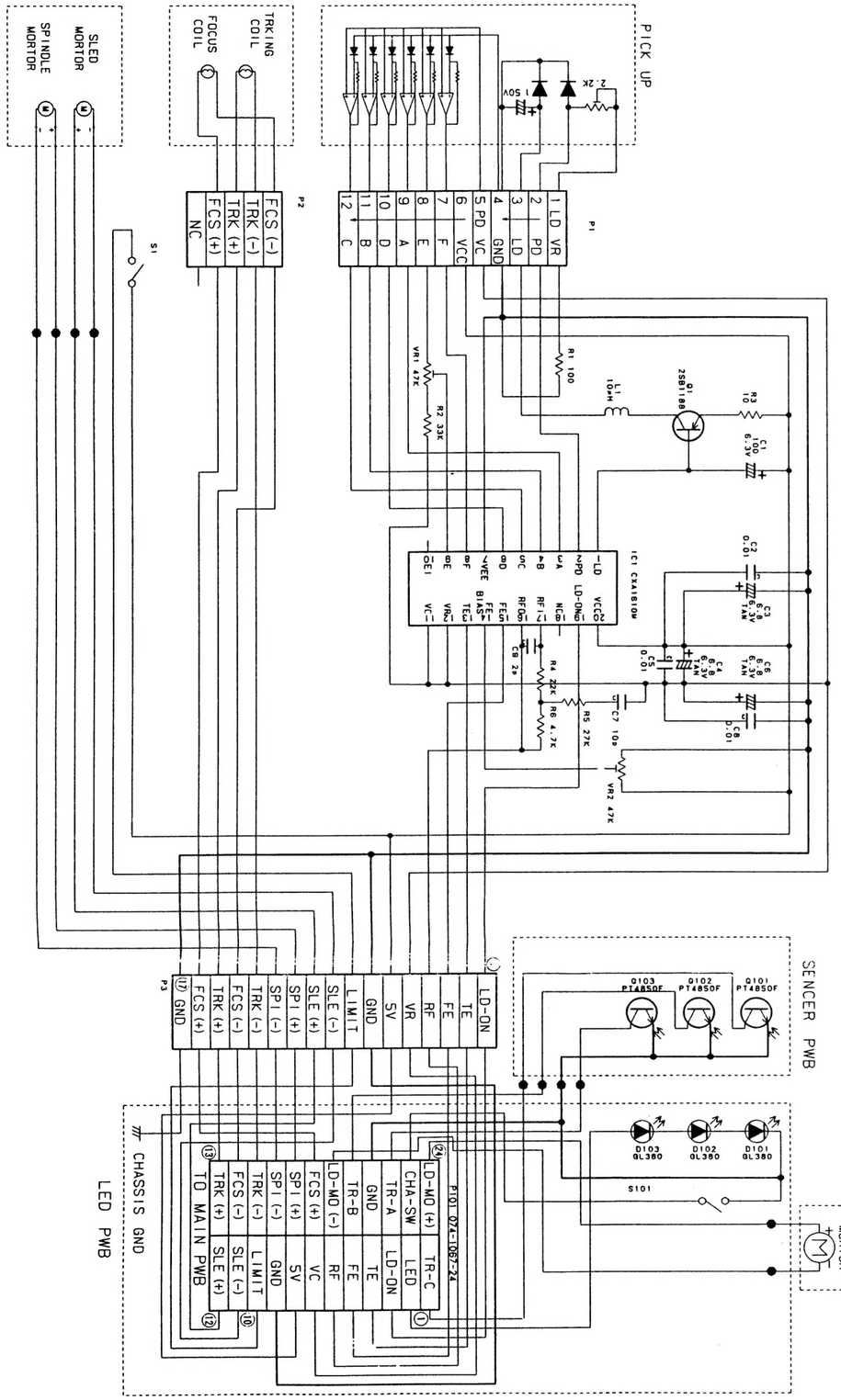
■PRINTED WIRING BOARD: ©CD SUB P.W.B

■プリント基板図



■CIRCUT DIAGRAM: ◎CD MECHANISM section 929-0060-81

■回 路 図

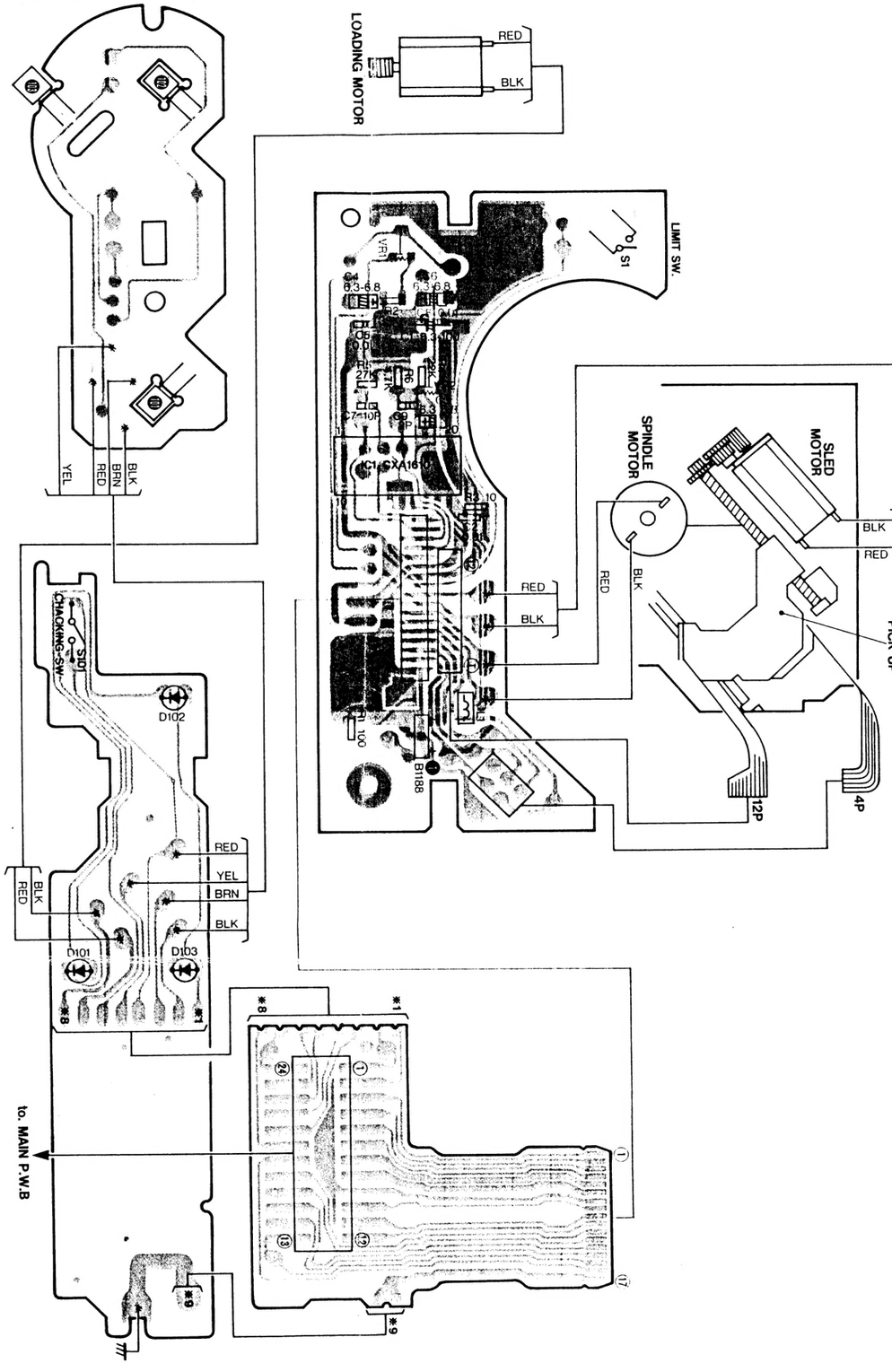


◎CD MECHA RF PWB

REF NO.	PART NO.	DESCRIPTION	QTY
L1	810-21199-00	COIL 10 μH	1
VR1.2	812-6000-09	VARIABLE-R 47k	2
S1	813-3989-00	SWITCH	1
C3.4.6	842-0423-03	CHIP-C 6.3U 6.8 μF TAN	3
IC1	851-1971-00	IC CXA1810M	1
Q1	101-1188-50	TRANSISTOR 2SB1188	1
C1	163-1073-10	CHIP-C 6.3U 100 μF	1
C7	176-1007-00	CHIP-C 10pF	1
C9	176-2096-00	CHIP-C 2pF	1
C2.5.8	178-1032-05	CHIP-C 0.01 μF	3

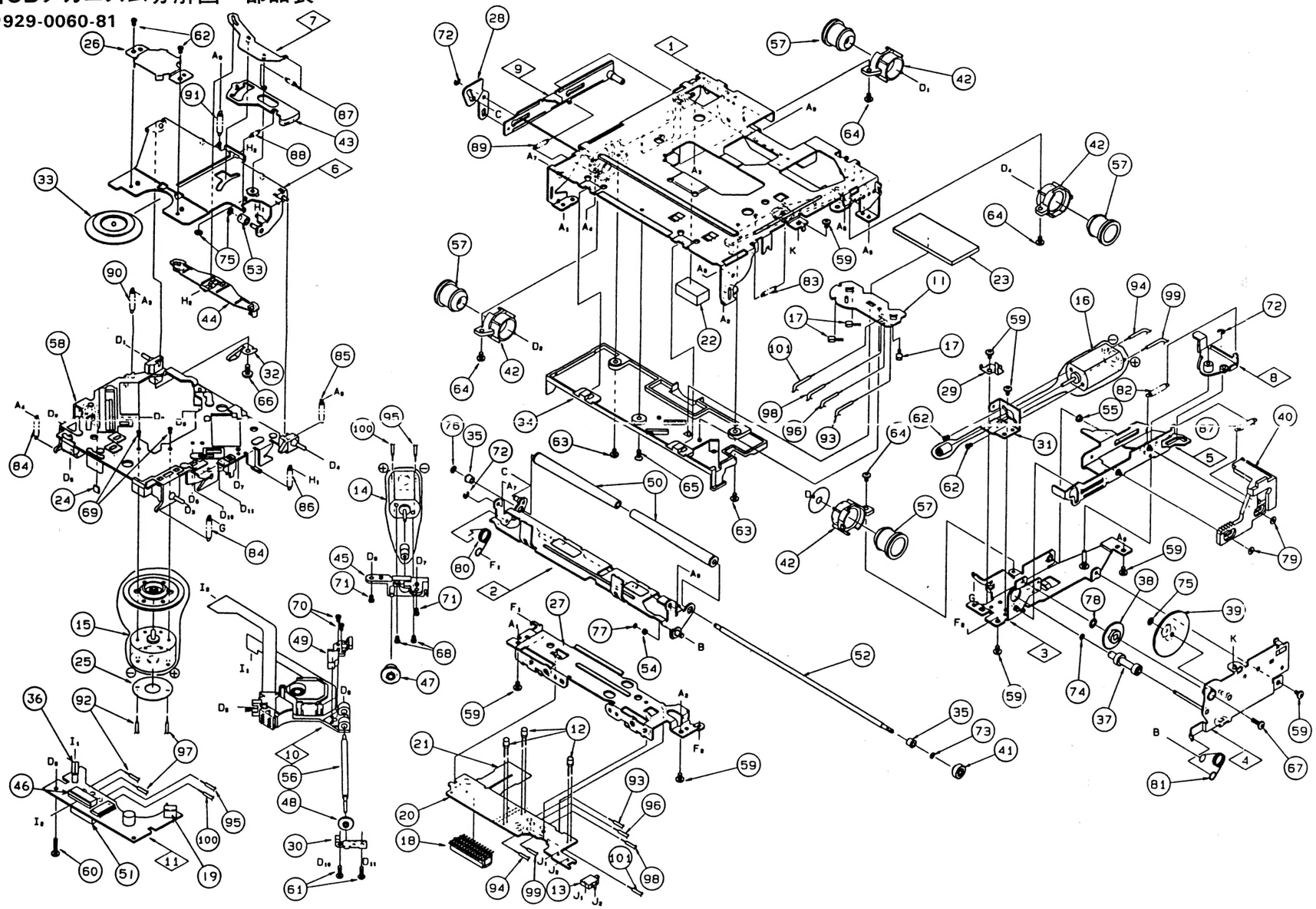
■PRINTED WIRING BOARD: ◎CD MECHANISM section 929-0060-81

■プリント基板図



■EXPLODED VIEW PARTS LIST:
■CDメカニズム分解図・部品表

◎929-0060-81



NO.	PART NO.	DESCRIPTION	QTY
1	966-0308-05	CHASSIS-ASSY	1
2	966-0309-03	L-DISC-G-ASSY	1
3	966-0310-05	SFT-P-CH-ASSY	1
4	966-0311-03	GEAR-P-ASSY	1
5	966-0312-04	SHIFT-P-ASSY	1
6	966-0313-05	CLAMP LINK-ASSY	1
7	966-0314-00	STOP LINK ASSY	1
8	966-0358-01	DRIVE-L-PL-ASSY	1
9	966-0359-02	SIDE-L-PL-ASSY	1
10	969-0004-01	PICK UP UNIT	1
11	039-0269-00	RF PWB	1
12	001-0563-00	LED GL380	3

NO.	PART NO.	DESCRIPTION	QTY
13	013-3945-00	SWITCH	1
14	SMA-146-100	DC-MOTOR SLED	1
15	SMA-148-100	DC-MOTOR SPINDLE	1
16	SMA-147-100	DC-MOTOR LOADING	1
17	060-0252-01	PHOTO-TR PT4850F	3
18	074-1067-24	OUTLET SOCKET	1
19	013-3989-50	SWITCH LIMIT	1
20	039-0270-00	LED-PWB	1
21	039-0271-00	FLEX PWB LED	1
22	345-7513-01	CLAMPER SHEET	1
23	345-7514-00	S-PWB-SHEET	1
24	345-7583-00	SPACER	1

NO.	PART NO.	DESCRIPTION	QTY
25	347-3270-00	MOTOR SHEET	1
26	620-0198-03	CLAMPER PLATE	1
27	620-0485-03	FRONT PLATE	1
28	620-0488-01	S-L-LINK PLATE	1
29	620-0489-01	MOTOR PLATE	1
30	620-0491-02	SPRING PLATE	1
31	620-0492-01	MOTOR BRACKET	1
32	620-0565-00	RATTLE PLATE	1
33	621-0205-02	CLAMPER RING	1
34	621-0242-02	U-DISC GUIDE	1
35	621-0243-02	ROLLER SLEEVE	2
36	074-0974-05	OUTLET SOCKET 5P	1
37	621-0245-02	GEAR A	1
38	621-0246-02	GEAR B	1
39	621-0247-99	GEAR C	1
40	621-0248-05	RACK GEAR	1
41	621-0249-02	ROLLER GEAR	1
42	621-0250-01	DAMPER HOLDER	4
43	621-0251-02	LOCK LINK	1
44	621-0252-03	DISC STOPPER	1
45	621-0253-01	MOTOR HOLDER	1
46	074-1048-62	OUTLET SOCKET 12P	1
47	621-0255-02	SECOND GEAR	1
48	621-0256-01	LS-GEAR	1
49	621-0257-03	SCREW HOLDER	1
50	621-0258-01	LOADING ROLLER	2
51	074-1048-67	OUTLET SOCKET 17P	1
52	622-1072-04	ROLLER SHAFT	1
53	622-1073-02	CLAMPER ROLLER	1
54	622-1074-00	L-D-G-ROLLER	1
55	622-1219-01	SHIFT ROLLER	1
56	624-0013-01	LEAD SCREW	1
57	629-0057-00	DAMPER-LCCD	4
58	629-0058-02	DRIVE PLATE	1
59	714-2003-81	MACHINE SCREW	8
60	714-2012-81	MACHINE SCREW	1
61	716-0675-00	SCREW	2
62	716-1468-00	SCREW	4
63	716-1507-00	SCREW	2
64	716-1670-00	SCREW	4
65	716-1677-00	SCREW	1
66	716-1685-00	SCREW	1
67	716-1704-00	SCREW	1
68	732-2004-11	SEMS SCREW	2
69	738-1722-17	PRECISION SCREW	2
70	739-1735-17	PRECISION SCREW	2
71	739-2030-17	PRECISION SCREW	2
72	743-1500-20	E-RING	3
73	746-0712-03	WASHER	1
74	746-0724-00	WASHER	1
75	746-0761-00	WASHER	3
76	746-0762-00	WASHER	1
77	746-0872-00	WASHER	1
78	746-0876-01	WASHER	1
79	746-0877-02	WASHER	2
80	750-3090-02	RO-SPRING L	1
81	750-3091-03	RO-SPRING R	1
82	750-3092-03	SHIFT SPRING	1
83	750-3094-00	S-ARM SPRING	1
84	750-3095-00	DR-SPRING F	2
85	750-3096-01	DR-SPRING R	1
86	750-3097-02	CLAMPER SPRING	1
87	750-3098-00	L-LINK SPRING	2
88	750-3099-00	ES-SPRING	1
89	750-3130-01	SIDE-L-SPRING	1
90	750-3164-00	DR-SPRING LR	1
91	750-3165-00	CENTER SPRING	1
92	800-4904-60	VINYL-COAT-WIRE 40mm	1
93	800-4910-60	VINYL-COAT-WIRE 100mm	1
94	800-4912-60	VINYL-COAT-WIRE 120mm	1
95	800-4916-60	VINYL-COAT-WIRE	1
96	801-4910-60	VINYL-COAT-WIRE 100mm	1
97	802-4906-60	VINYL-COAT-WIRE 60mm	1
98	802-4910-60	VINYL-COAT-WIRE 100mm	1
99	802-4912-60	VINYL-COAT-WIRE 120mm	1
100	802-4916-60	VINYL-COAT-WIRE	1
101	804-4910-60	VINYL-COAT-WIRE 100mm	1